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## DESIGN OF DIRECT ALTERNATING CURRENT DRIVER SYSTEM FOR DECREASE OF FLICKER INDEX

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***Abstract:** This paper presents the process of design and investigation of electronic modules, as well as preparing of lighting specifiers, installers and ways to avoid flickering effects. All new generations of LED industry involve in their production a DACD (Direct Alternating Current Driver) system to decrease a production cost and provide quality products to the market. Inventors are required to achieve this aim. Applying LED lamps direct to the AC networks seems straightforward, but it should be done with care to achieve similar light quality as the conventional lamp that the user is trying to replace. Light flicker is one of the aspects that needs to be considered carefully during LED lamp design to avoid customer complaints about the field. This application note explains the LED lamp flicker phenomena in relation to driver topology and LED characteristics. A practical flicker measurement method is explained as well, that can be used to measure light flicker in LED lamps.*

***Keywords:** LED, DACD, light quality, flicker index.*

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